

WINDING AND SPRING DESIGNATIONS

APPARATUS CONNECTING POINTS REFERRED TO IN CIRCUIT REQUIREMENTS TABLES

INDEX AND GENERAL INFORMATION

1. GENERAL

1.01 This section covers a cross-reference index for information describing the standard winding and spring designations for specific types of apparatus.

1.02 This section is reissued to revise the index to include additional relays, switches, and registers.

1.03 The winding and spring designations are covered in the following sections.

SECTION NUMBER

TITLE

005-120-103 Winding and Spring Designations — Apparatus Connecting Points Referred to in Circuit Requirements Tables — Standard Since 1931

SECTION NUMBER

TITLE

005-120-104 Winding and Spring Designations — Apparatus Connecting Points Referred to in Circuit Requirements Tables — Standard Prior to 1931

1.04 The figures in these sections illustrate the winding and spring designations of relays and other apparatus. They are merely representative examples of the general designation scheme for the particular type of apparatus. They do not cover all the various arrangements of winding and spring terminals.

1.05 Reference is made to the front of the apparatus and to the rear of the apparatus as referring to the contact side and the terminal (wiring) side respectively.

1.06 The following index lists the apparatus in alphabetical and numerical order and gives the numbers of the paragraphs and figures in Sections 005-120-103 and 005-120-104 describing the winding and spring designations.

**INDEX FOR INFORMATION DESCRIBING THE WINDING AND
SPRING DESIGNATIONS FOR SPECIFIC TYPES OF APPARATUS**

APPARATUS	TYPE	SECTION 005-120-103 DESIGNATIONS STANDARD SINCE 1931		SECTION 005-120-104 DESIGNATIONS STANDARD PRIOR TO 1931	
		FIG. NO.	PAR. NO.	FIG. NO.	PAR. NO.
Clutches	—	—	4.08	—	4.01
Commutators (panel)	—	—	4.01	—	4.01
Conductors	—	—	4.02	—	4.01
			through		
			4.06		
Drops	22	100	4.07	29	4.02
	35	101	4.07	30	4.02
Drops	56	102	4.07	31	4.02
Inductors	274	103	4.09	—	—
Interrupters	149	104	4.10	—	4.01
	152	104	4.10	—	4.01
	160	104	4.10	—	4.01
Interrupters	161	104	4.10	—	4.01
	164	104	4.10	—	4.01
	165	104	4.10	—	4.01
	166	104	4.10	—	4.01
	167	104	4.10	—	4.01
Interrupters	173	—	4.11	—	—
Magnets — Trip	—	—	4.08	—	4.01
Networks	176	105	4.12	—	—
	177	105	4.12	—	—
	178	105	4.12	—	—
Networks	179	105	4.12	—	—
	180	—	4.12	—	—
	181	105	4.12	—	—
	182	105	4.12	—	—
	183	105	4.12	—	—
Networks	184	—	4.12	—	—
	185	—	4.12	—	—
	186	—	4.12	—	—
Registers, Message	5	106	4.13	32	4.03
	12	106	4.13	—	—
Registers, Message	14	106	4.13	—	—
	15	106	4.13	—	—
	16	106	4.13	—	—
	18	106	4.13	—	—
Registers, Pen	KS-3106	107	4.14	—	—
	KS-3107	107	4.14	—	—
Relays	A	1, 2	2.01 through 2.11	1, 2	2.01 through 2.03
	B	3	2.12 through 2.14	3	2.04

APPARATUS	TYPE	SECTION 005-120-103 DESIGNATIONS STANDARD SINCE 1931		SECTION 005-120-104 DESIGNATIONS STANDARD PRIOR TO 1931	
		FIG. NO.	PAR. NO.	FIG. NO.	PAR. NO.
Relays	C	3	2.12 through 2.14	4	2.05
	E	1, 2	2.01 through 2.11	1, 2	2.01 through 2.03
	F	1, 2	2.01 through 2.11	1, 2	2.01 through 2.03
	G	3	2.12 through 2.14	3	2.04
	H	1, 2	2.01 through 2.11	1, 2	2.01 through 2.03
Relays	J	3	2.12 through 2.14	3	2.04
	L	4	2.15, 2.16	5	2.06
	M	1, 2	2.01 through 2.11	—	—
	N	4	2.15, 2.16	5	2.06
	R	1, 2	2.01 through 2.11	1, 2	2.01 through 2.03
Relays	S	4	2.15, 2.16	5	2.06
	T	1, 2	2.01 through 2.11	1, 2	2.01 through 2.03
	U	5, 6, 7	2.17 through 2.24	—	—
	Y	5, 6, 7	2.17 through 2.24	—	—
	AB	1, 2	2.01 through 2.11	—	—

SECTION 005-120-102

APPARATUS	TYPE	SECTION 005-120-103 DESIGNATIONS STANDARD SINCE 1931		SECTION 005-120-104 DESIGNATIONS STANDARD PRIOR TO 1931	
		FIG. NO.	PAR. NO.	FIG. NO.	PAR. NO.
Relays	AF	8, 10	2.26 through 2.28	—	—
	AG	8, 10	2.26 through 2.28	—	—
	AJ	8 through 11	2.26 through 2.28	—	—
	AK	12, 13	2.29 through 2.31	—	—
	AL	8, 10	2.26 through 2.28	—	—
Relays	AM	12, 13	2.29 through 2.31	—	—
	BF	14, 16, 18	2.32 through 2.34	—	—
	BJ	15, 17, 18	2.32 through 2.34	—	—
	BL	14, 16, 18	2.32 through 2.34	—	—
Relays	EA	1, 2	2.01 through 2.11	—	—
	MA	19, 21	2.35, 2.36	—	—
	MB	20, 22	2.35, 2.36	—	—
Relays	UA	5, 6, 7	2.17 through 2.24	—	—
	UB	5, 6, 7	2.25	—	—
	21	23	2.37	6	2.07
	44	24	2.38	7	2.08
	85	25	2.39	8	2.09
Relays	87	26	2.40	9	2.10
	89	27	2.41	10	2.11
	101	27	2.41	10	2.11
	105	27	2.41	10	2.11
	108	27	2.41	10	2.11

APPARATUS	TYPE	SECTION 005-120-103 DESIGNATIONS STANDARD SINCE 1931		SECTION 005-120-104 DESIGNATIONS STANDARD PRIOR TO 1931	
		FIG. NO.	PAR. NO.	FIG. NO.	PAR. NO.
Relays	114	31	2.42	14	2.12
	118	27	2.41	10	2.11
	121	32	2.43	15	2.13
	122	32	2.43	15	2.13
	124	31	2.42	14	2.12
Relays	125	32	2.43	15	2.13
	126	31	2.42	14	2.12
	149	32	2.43	15	2.13
	150	33	2.44	16	2.14
	162	32	2.43	15	2.13
Relays	172	27	2.41	10	2.11
	174	31	2.42	14	2.12
	177	34	2.45	17	2.15
	178	32	2.43	15	2.13
	179	32	2.43	15	2.13
Relays	186	35	2.46	18	2.16
	189	30	2.41	11	2.11
	190	28	2.41	12	2.11
	196	36	2.47	12	2.11
	198	31	2.42	14	2.12
Relays	203	34	2.45	17	2.15
	206	37	2.48	19	2.17
	207	38	2.49	20	2.18
	208	29	2.41	13	2.11
	209	39	2.50	21	2.19
Relays	213	38	2.49	20	2.18
	214	29	2.41	13	2.11
	215	40	2.50	22	2.19
	218	41	2.50	23	2.19
	221	43	2.51	25	2.20
Relays	222	43	2.51	25	2.20
	223	43	2.51	25	2.20
	224	43	2.51	25	2.20
	225	44	2.52	26	2.21
	227	37	2.48	19	2.17
Relays	228	42	2.50	24	2.19
	229	45	2.53	27	2.22
	230	46	2.53	28	2.22
	231	37	2.48	19	2.17
	232	46	2.53	-	-
Relays	235	47	2.54	-	-
	236	1, 2	2.01 through 2.11	-	-
	239	37	2.48	-	-
	245	48	2.56	-	-
	247	43	2.51	-	-

SECTION 005-120-102

APPARATUS	TYPE	SECTION 005-120-103 DESIGNATIONS STANDARD SINCE 1931		SECTION 005-120-104 DESIGNATIONS STANDARD PRIOR TO 1931	
		FIG. NO.	PAR. NO.	FIG. NO.	PAR. NO.
Relays	248	43	2.51	—	—
	251	43	2.51	—	—
	252	43	2.51	—	—
	253	29	2.41	—	—
	254	48	2.56	—	—
Relays	255	40	2.50	—	—
	260	—	2.57	—	—
	263	48	2.56	—	—
	264	48	2.56	—	—
	266	49, 50	2.58 through 2.64	—	—
Relays	267	51, 52	2.65	—	—
	268	38	2.49	—	—
	271	53	2.66	—	—
	275	54	2.67	—	—
	276	54	2.67	—	—
Relays	280	37	2.48	—	—
	281	55	2.68	—	—
	282	56	2.69	—	—
	283	57	2.70	—	—
	286	58, 60	2.71 through 2.73	—	—
Relays	287	59, 61	2.71 through 2.73	—	—
	288	59, 62	2.71 through 2.73	—	—
	289	63	2.74	—	—
	290	64	2.75	—	—
	291	54	2.67	—	—
Relays	292	—	2.67	—	—
	293	65	2.76	—	—
	294	70	2.77	—	—
	295	66	2.76	—	—
Relays	301	—	2.67	—	—
	302	67	2.76	—	—
	303	54	2.67	—	—
	305	43	2.51	—	—
Relays	307	43	2.51	—	—
	309	43	2.51	—	—
	310	5, 6, 7	2.17 through 2.24	—	—
	311	71	2.79	—	—
	312	72	2.79	—	—

APPARATUS	TYPE	SECTION 005-120-103 DESIGNATIONS STANDARD SINCE 1931		SECTION 005-120-104 DESIGNATIONS STANDARD PRIOR TO 1931	
		FIG. NO.	PAR. NO.	FIG. NO.	PAR. NO.
Relays	313	73	2.79	—	—
	314	74	2.80	—	—
	316	75	2.81	—	—
	317	72	2.79	—	—
	318	68	2.76	—	—
Relays	320	54	2.67	—	—
	321	—	2.67	—	—
	322	76	2.82	—	—
	323	77	2.83	—	—
	324	78	2.84	—	—
Relays	325	79	2.84	—	—
	326	77	2.83	—	—
	327	80	2.85	—	—
	328	81	2.85	—	—
	329	82	2.85	—	—
Relays	330	81	2.85	—	—
	331	69	2.76	—	—
	KS-3067	83	2.86	—	—
Relays	KS-5013	83	2.86	—	—
	KS-5350	84	2.87	—	—
		through	through		
		88	2.91		
	KS-5381	83	2.86	—	—
	KS-5451	84	2.87	—	—
		through	through		
Relays		88	2.91		
	KS-5483	83	2.86	—	—
	KS-6319	83	2.86	—	—
	KS-6724	83	2.86	—	—
	KS-6902	89	2.92	—	—
	KS-6903	89	2.92	—	—
	KS-7252	89	2.92	—	—
Relays — (Adams Westlake)	KS-7800				
	through	90	2.93	—	—
	KS-7850				
	— (Sensitrol)	—	2.94	—	—
	— (Sensitrol)	—	2.94	—	—
Relays — (Adams Westlake)	— (Adams Westlake)	—	2.95	—	—
	KS-8171	—			
Relays — (Adams Westlake)	KS-8280	90	2.93	—	—
	— (Adams Westlake)				
	KS-8331	—	2.95	—	—
	— (Sensitrol)	—	2.94	—	—
	— (Sensitrol)	—	2.94	—	—
	KS-8388	—	2.94	—	—
	KS-13542	—	2.96	—	—

SECTION 005-120-102

APPARATUS	TYPE	SECTION 005-120-103 DESIGNATIONS STANDARD SINCE 1931		SECTION 005-120-104 DESIGNATIONS STANDARD PRIOR TO 1931	
		FIG. NO.	PAR. NO.	FIG. NO.	PAR. NO.
Relays	KS-13543	—	2.96	—	—
— AEC Co Types	—	42, 43	2.51, 2.52	25, 26	2.20, 2.21
— Dashpot	—	91	2.97	—	—
— Milliammeter	—	—	2.57	—	—
— Voltmeter	—	—	2.57	—	—
Resistors	40	108	4.15	—	4.01
Selectors	200	—	4.16	—	4.01
	204	109	4.17	33	4.04
	206	—	4.16	—	4.01
	209	—	4.16	—	—
Selectors	211	—	4.16	—	—
Signals	34	110	4.18	34	4.05
	41	111	4.18	35	4.05
	42	112	4.18	36	4.05
Switches	197	92	3.01 through 3.05	—	3.01
Switches	198	92	3.01 through 3.05	—	3.01
	202	93	3.06	—	—
	211	93	3.06	—	—
	212	93	3.06	—	—
	216	94	3.07	—	—
Switches	217	94	3.07	—	—
	300	95, 96	3.08	—	—
	through		through		
	308		3.12		
	314	95, 96	3.08	—	—
			through		
			3.12		
	315	95, 96	3.08	—	—
			through		
			3.12		
	318	95, 96	3.08	—	—
			through		
			3.12		
Switches	324	95, 96	3.08	—	—
			through		
			3.12		
	325	95, 96	3.08	—	—
			through		
			3.12		
	328	95, 96	3.08	—	—
			through		
			3.12		

APPARATUS	TYPE	SECTION 005-120-103 DESIGNATIONS STANDARD SINCE 1931		SECTION 005-120-104 DESIGNATIONS STANDARD PRIOR TO 1931	
		FIG. NO.	PAR. NO.	FIG. NO.	PAR. NO.
Switches	334	95, 96	3.08 through 3.12		
	338	95, 96	3.08 through 3.12		
	— (sequence)	73, 74	3.14 through 3.15	—	3.01
	— (25-point rotary)	—	4.16	—	3.01
Switches — Transfer Timers	KS-5264	99	3.16	—	—
	1	113	4.19 through 4.20	—	—
	2	113	4.19 through 4.20	—	—
	3	—	4.21	—	—

